

2012 PISCES Forum

Pioneering Planetary Surface Systems Technologies and Capabilities

Marriott Waikoloa - South Kohala, Hawai`i November 11-15, 2012

DATE	TIME	EVENT
SUNDAY (Nov. 11)	1:30 p.m.	On-Site Registration Begins - Hotel Lobby
	2:00 p.m.	PISCES Board of Directors Meeting - $Paniolo\ I$
	6:00 p.m.	Delegate Reception - Paniolo Terrace
MONDAY (Nov. 12)	7:00 a.m.	Breakfast Buffet – <i>Hawai`i Calls Restaurant</i>
		OPENING CEREMONIES - Naupaka IV
	8:00 a.m.	Opening Pule - Ms. Koa Rice CAPER Center for Astronomy & Physics Education Research
	8:05 a.m.	Aloha and Welcome
		Mary Alice Evans, Deputy Director Hawai i Dept. of Business, Economic Development & Tourism
		Henk Rogers, Vice Chairman Pacific International Space Center for Exploration Systems
	8:15 a.m.	The Origins and Future Potential of PISCES
		Stephen Day, Chairman Emeritus Japan-U.S. Science, Technology & Space Applications Program
	8:30 a.m.	The View from the Hawai`i State Legislature
		Senator Will Espero, Rep. Angus McKelvey
	8:45 a.m.	The View from NASA
		Alex MacDonald, Program Executive NASA Emerging Space Office
	9:00 a.m.	NASA's Joint Robotic Precursor Activity: Providing Strategic Knowledge to Inform Future Human Exploration Dr. Michael Wargo, Chief Exploration Scientist Advanced Exploration Systems
		Human Exploration and Operations Missions Directorate - NASA HQ

(via videoconference)



DATE	Тіме	EVENT
MONDAY	9:30 a.m.	Realizing the PISCES Vision: A Status Report Robert Kelso, Executive Director - PISCES
	10:00 a.m.	Refreshment Break and Group Photo - Naupaka Lanai
	10:30 a.m.	Keynote Panel
		Enabling Sustainable Exploration Beyond LEO
		Lunar Resources: Importance and Availability Dr. Clive Neal, Professor of Geology - University of Notre Dame (via videoconference) Planetary Resources: Importance and Availability
		Dr. Paul Hintze, Materials Science Engineer - NASA KSC
		Commercial Opportunities: Lunar
		Jim Keravala, CEO - Shackleton Energy Company Inc. Commercial Opportunities: Planetary
		Dr. Tai Sik Lee, President - Intl. Space Exploration Research Inst./ROC
	12:00 Noon	Lunch - Naupaka IV
		Guest Speaker: Elliot Pulham
		CEO - Space Foundation Chairman - Hawai`i Aerospace Advisory Committee
		Topic: A Global Perspective on PISCES
	1:30 pm	Plenary Panel 1: PISCES Programs and Capabilities
		Dust to Thrust
		Christian Anderson, Program Manager - PISCES Dale Boucher, Advanced Projects Manager - NORCAT
		Rocks to Blocks
		Rob Kelso, Executive Director - PISCES Dr. Paul Hintze, Materials Science Engineer - NASA KSC
		Robotics and Navigation
		Dr. Lutz Richter, General Secretary - ISTVS
	3:00 p.m.	Refreshment Break - Naupaka Lanai
	3:30 p.m.	Plenary Panel 2: PISCES Programs and Capabilities
		Base Facility, Education/Visitors Center/Public Outreach, Field Test Sites, Robotic Village
		John Hamilton, PISCES Christian Anderson, PISCES Dr. Kim Binstad, Associate Prof. of Computer Science, LLH, Manage
		Dr. Kim Binsted, Associate Prof. of Computer Science - U.H. Manoa

5:00 p.m. Adjourn



DATE	Тіме	EVENT
TUESDAY	7:00 a.m.	Breakfast Buffet - Hawai`i Calls Restaurant
(Nov. 13)	8:00 a.m.	TECHNOLOGY PAPER PRESENTATIONS - Session 1
		Track 1: Mining, Planetary Infrastructure, and Construction Naupaka IV
		Track 2: Technology, Robotics, and Mission Concepts Naupaka V
	10:00 a.m.	Refreshment Break - Naupaka Lanai
	10:30 a.m.	TECHNOLOGY PAPER PRESENTATIONS - Session 2
		Track 1: Mining, Planetary Infrastructure, and Construction Naupaka IV
		Track 2: Technology, Robotics, and Mission Concepts $Naupaka\ V$
	12:00 Noon	Lunch - Naupaka IV
		Guest Speaker: Dr. Lutz Richter, General Secretary International Society for Terrain Vehicle Systems
		Topic: Recent Advances in Terrain Vehicle Systems
	1:30 p.m.	TECHNOLOGY PAPER PRESENTATIONS - Session 3
		Track 1: Mining, Planetary Infrastructure, and Construction Naupaka IV
		Track 2: Technology, Robotics, and Mission Concepts $Naupaka\ V$
	3:00 p.m.	Refreshment Break - Naupaka Lanai
	3:30 p.m.	PLENARY SESSION 2 - Naupaka IV
		Introduction to Workshops:
		Technology Innovation - Robert Kelso, PISCES
		Education & Public Outreach - John Hamilton, PISCES
		Sustainable Exploration Beyond LEO - Dan Bland, JAMSS America Inc. Stephen Day, Intl. Ventures Assoc.
	5:00 p.m.	Adjourn



DATE	Тіме	EVENT
WEDNESDAY	7:00 a.m.	Breakfast Buffet - Hawai`i Calls Restaurant
(Nov. 14)	8:00 a.m.	APPLICATIONS / CAPABILITIES WORKSHOPS
		Workshop 1: Technology Innovation - Paniolo I
		Workshop 2: Education and Public Outreach - Paniolo II
		Workshop 3: Sustainable Exploration Beyond LEO - Paniolo III
	10:00 a.m.	Refreshment Break - Naupaka Lanai
	10:30 a.m.	APPLICATIONS / CAPABILITIES WORKSHOPS
		Workshop 1: Technology Innovation - Paniolo I
		Workshop 2: Education and Public Outreach - Paniolo II
		Workshop 3: Sustainable Exploration Beyond LEO - Paniolo III
	12:00 Noon	Lunch - Naupaka IV
		Guest Speaker: Dr. Kazuya Yoshida, Space Robotics Lab Tohoku University
		Topic: White Label Space and the Google Lunar X-Prize
	1:30 p.m.	APPLICATIONS / CAPABILITIES WORKSHOPS
		Workshop 1: Technology Innovation - Paniolo I
		Workshop 2: Education and Public Outreach - Paniolo II
		Workshop 3: Sustainable Exploration Beyond LEO - Paniolo III
	3:00 p.m.	Refreshment Break - Naupaka Lanai
	3:30 p.m.	APPLICATIONS / CAPABILITIES WORKSHOPS
		Workshop 1: Technology Innovation - Paniolo I
		Workshop 2: Education and Public Outreach - Paniolo II
		Workshop 3: Sustainable Exploration Beyond LEO - Paniolo III
	4:30 p.m.	Special Presentation - Naupaka IV
		Options and Opportunities for Sustainable Space Exploration
		Dr. Buzz Aldrin, Astronaut - Gemini 12, Apollo 11 CEO - Unified Space Vision
	5:30 p.m.	Adjourn



DATE	TIME	EVENT
THURSDAY (Nov. 15)	7:00 a.m.	Breakfast Buffet - Hawai`i Calls Restaurant
	8:00 a.m.	APPLICATIONS / CAPABILITIES WORKSHOPS
		Workshop 1: Technology Innovation - Paniolo I
		Workshop 2: Education and Public Outreach - Paniolo II
		Workshop 3: Sustainable Exploration Beyond LEO - Paniolo III
	10:00 a.m.	Refreshment Break - Naupaka Lanai
	10:30 a.m.	APPLICATIONS / CAPABILITIES WORKSHOPS
		Workshop 1: Technology Innovation - Paniolo I
		Workshop 2: Education and Public Outreach - Paniolo II
		Workshop 3: Sustainable Exploration Beyond LEO - Paniolo III
	12:00 Noon	Lunch - Naupaka IV
		Guest Speaker: Henk Rogers, Chairman - Blue Planet Foundation Topic: Why do we go? - The Space Exploration Imperative
	1:30 p.m.	CLOSING PLENARY - Naupaka IV
		Summary of Workshop Discussions:
		 Initial Technology Thrusts/PISCES Capabilities
		 Visions/Support for Sustainable Settlements beyond LEO
		Strategies/Next-Steps for Building PISCES Partnerships
		Optimum Capabilities Phasing and Prioritizing for 2013 Operations
	3:30 p.m.	PISCES Board of Directors Meeting - Paniolo I
	5:00 p.m.	Adjourn
	6:00 p.m.	ALOHA Dinner - Waikoloa Lu'au Grounds